09641127 .070600

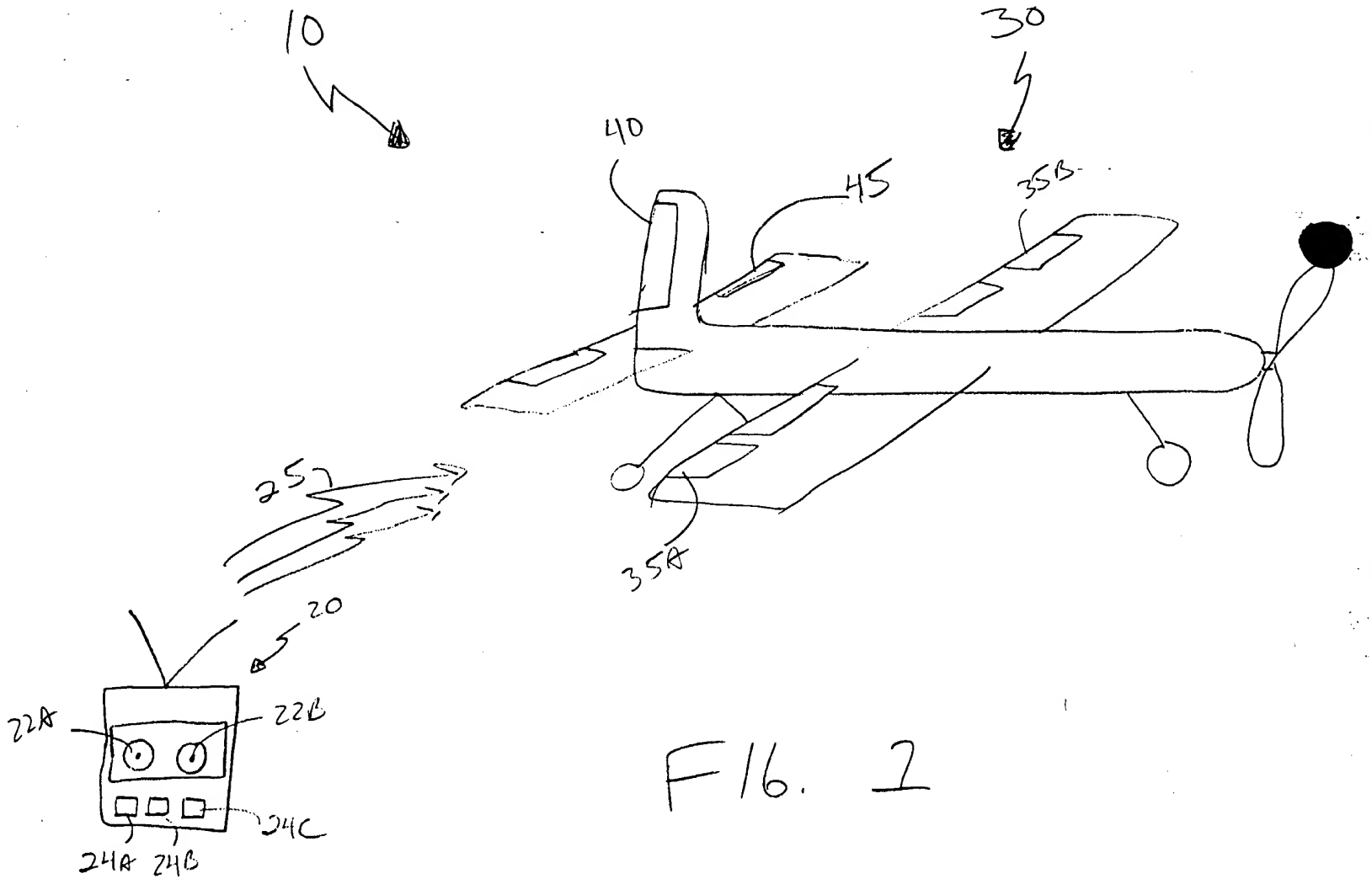

FIG. 1

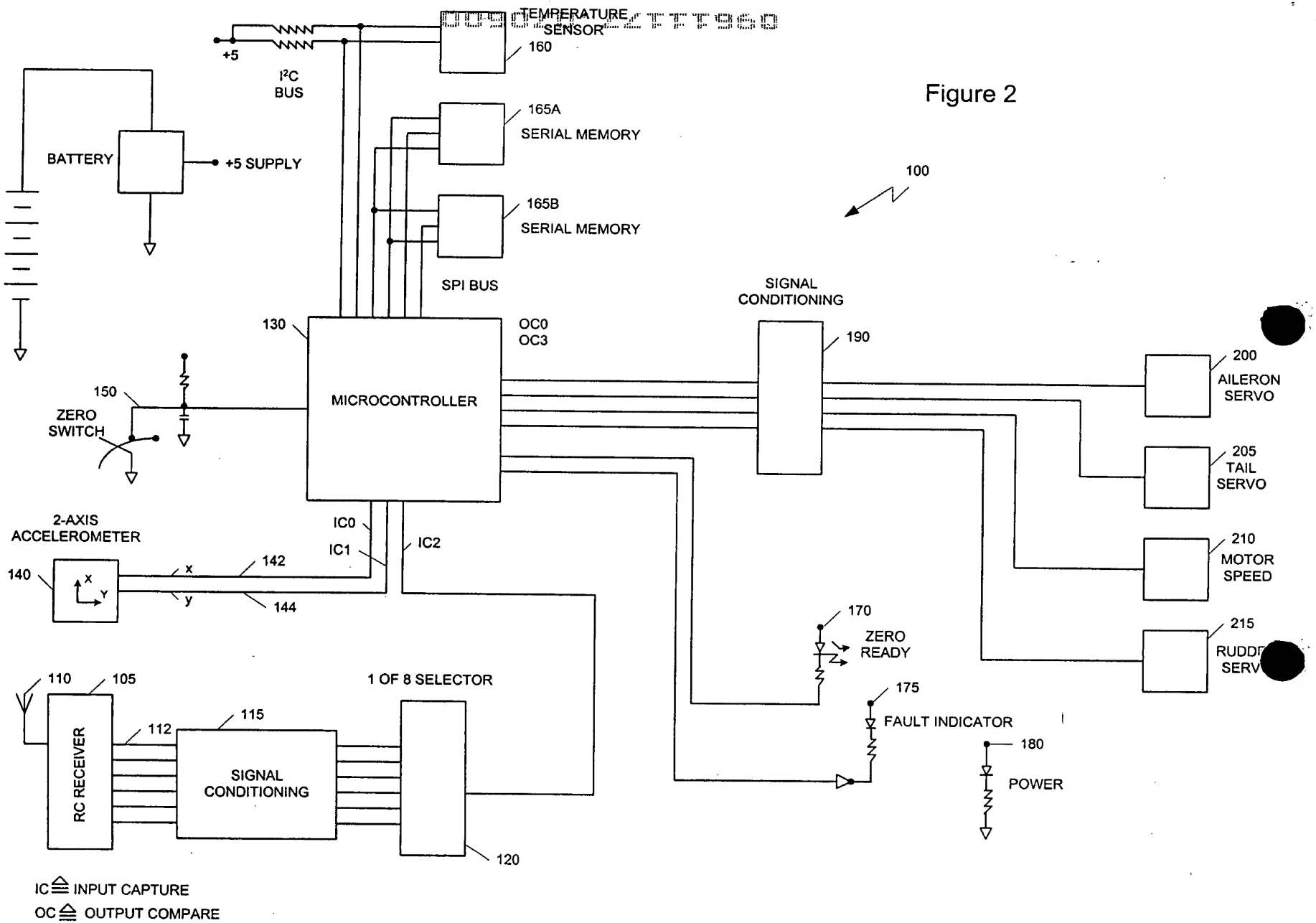

Figure 2

S:\DOCS\MLF\MLF-2934-FIG.2
050100

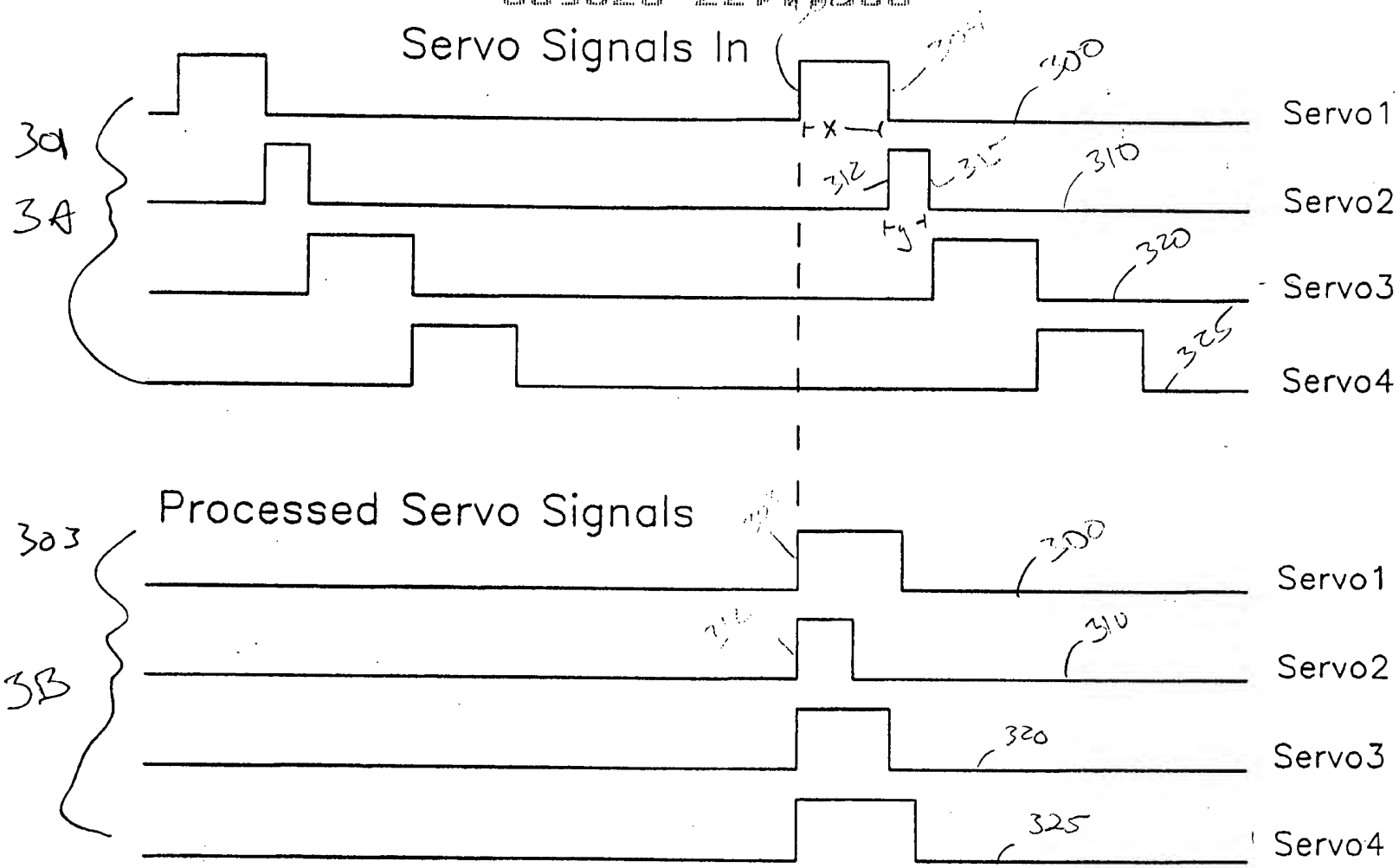
Servo Signals In
Servo1
Servo2
Servo3
Servo4
Processed Servo Signals
Servo1
Servo2
Servo3
Servo4

Figure 3

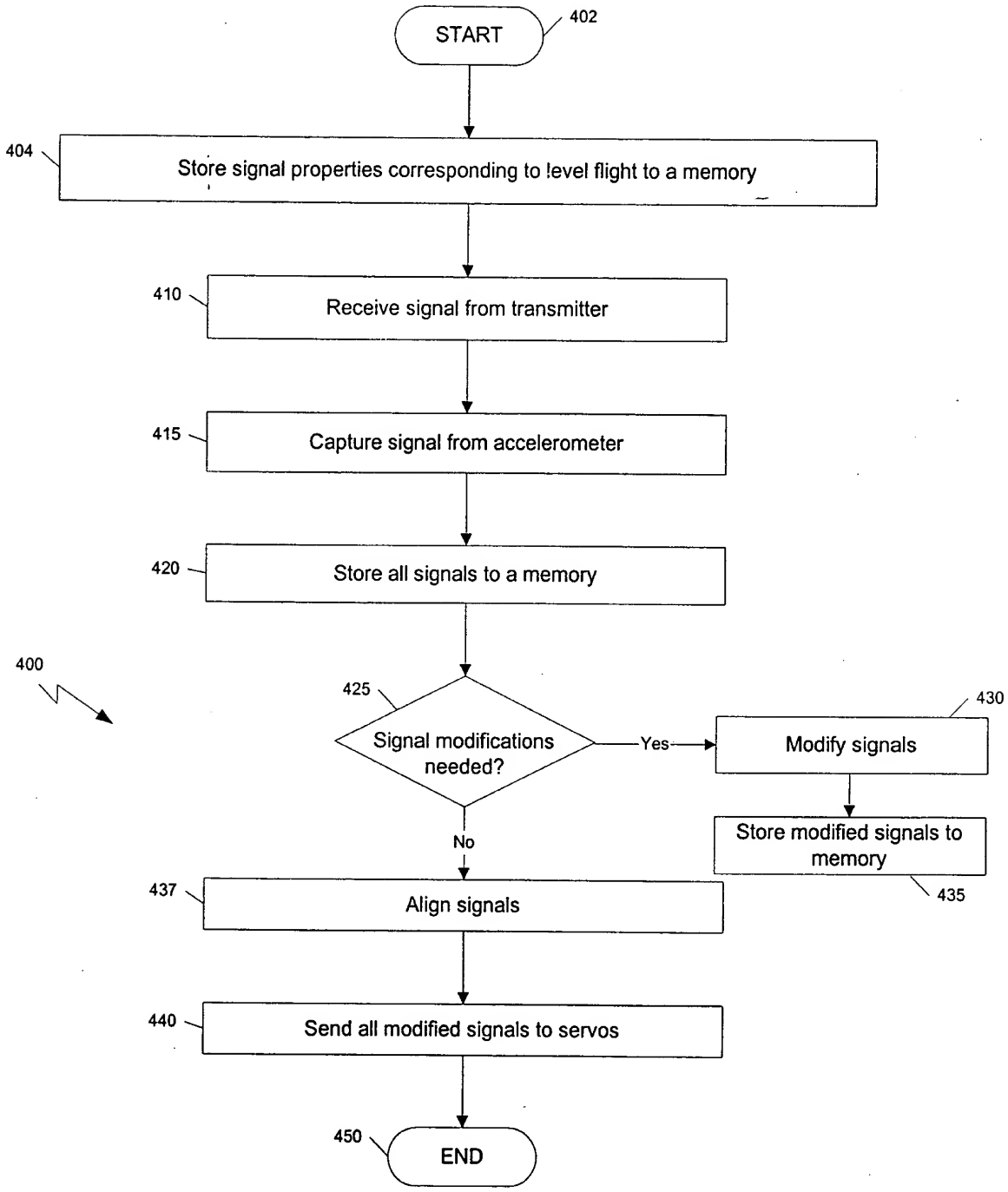
START
402
404
Store signal properties corresponding to level flight to a memory
410
Receive signal from transmitter
415
Capture signal from accelerometer
420
Store all signals to a memory
400
425
Signal modifications needed?
Yes
430
Modify signals
Store modified signals to memory
435
No
437
Align signals
440
Send all modified signals to servos
450
END

Figure 4

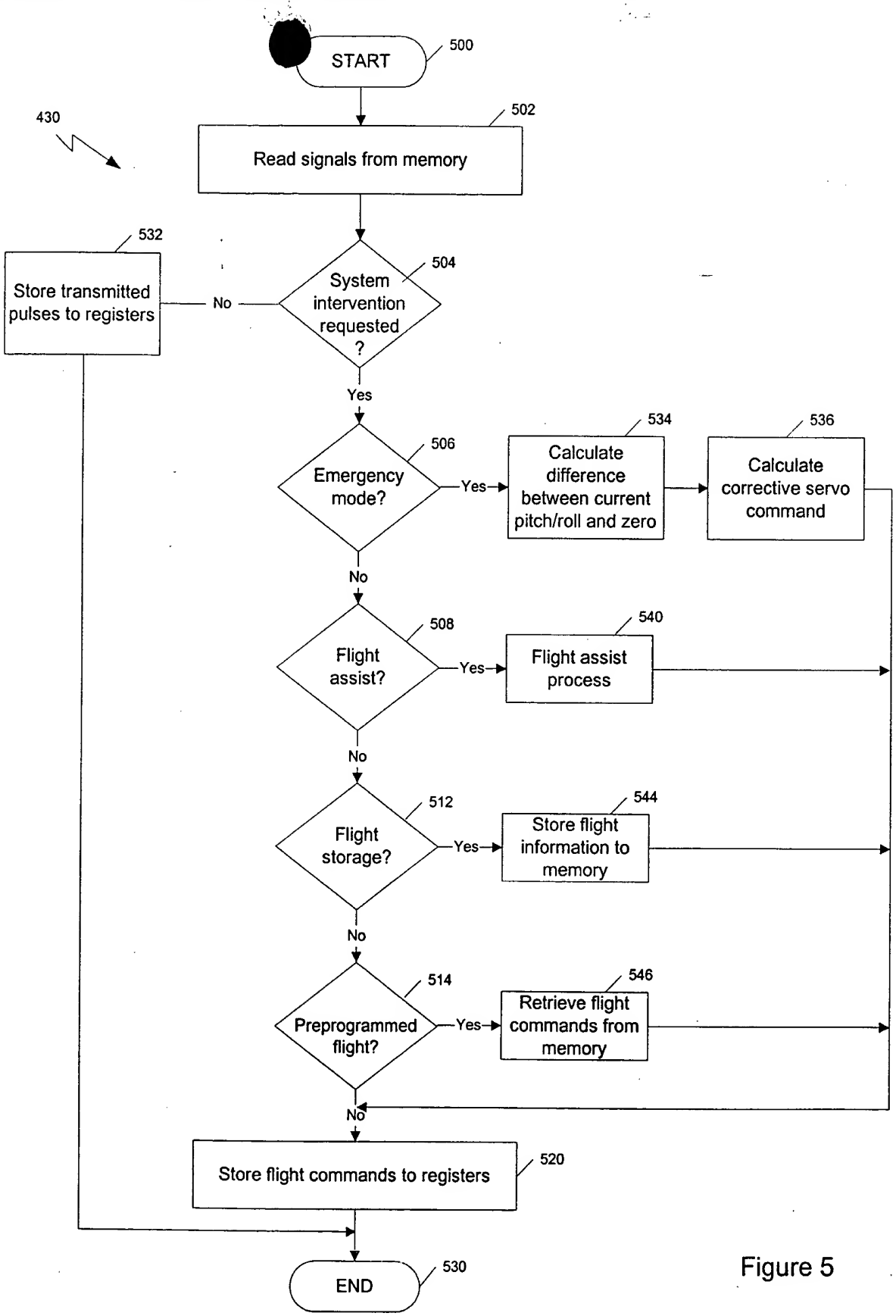

Figure 5

DOCKET ALARM

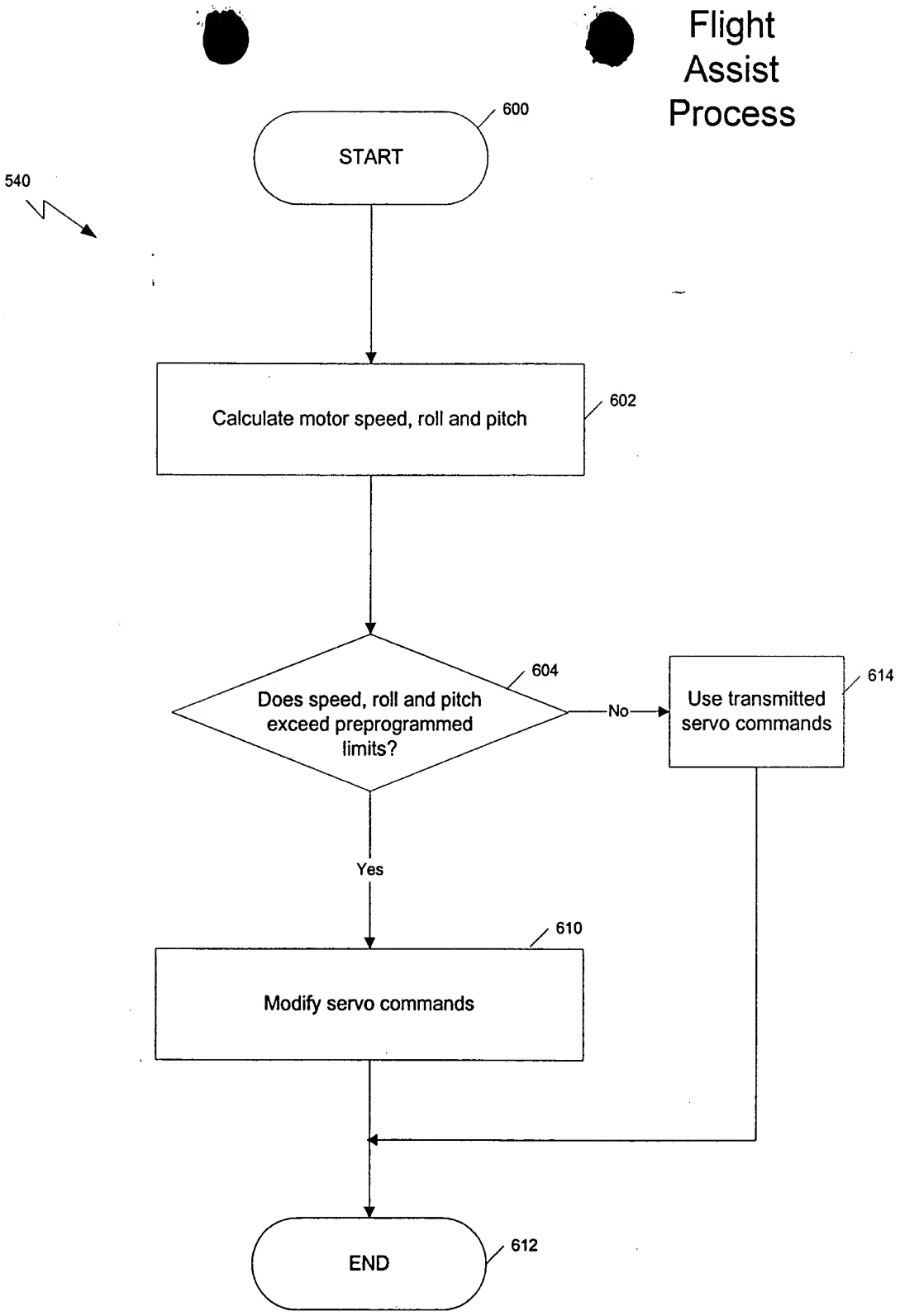
Flight Assist Process
540
START
600
Calculate motor speed, roll and pitch
602
Does speed, roll and pitch exceed preprogrammed limits?
604
No
Use transmitted servo commands
614
Yes
Modify servo commands
610
END
612

Figure 6

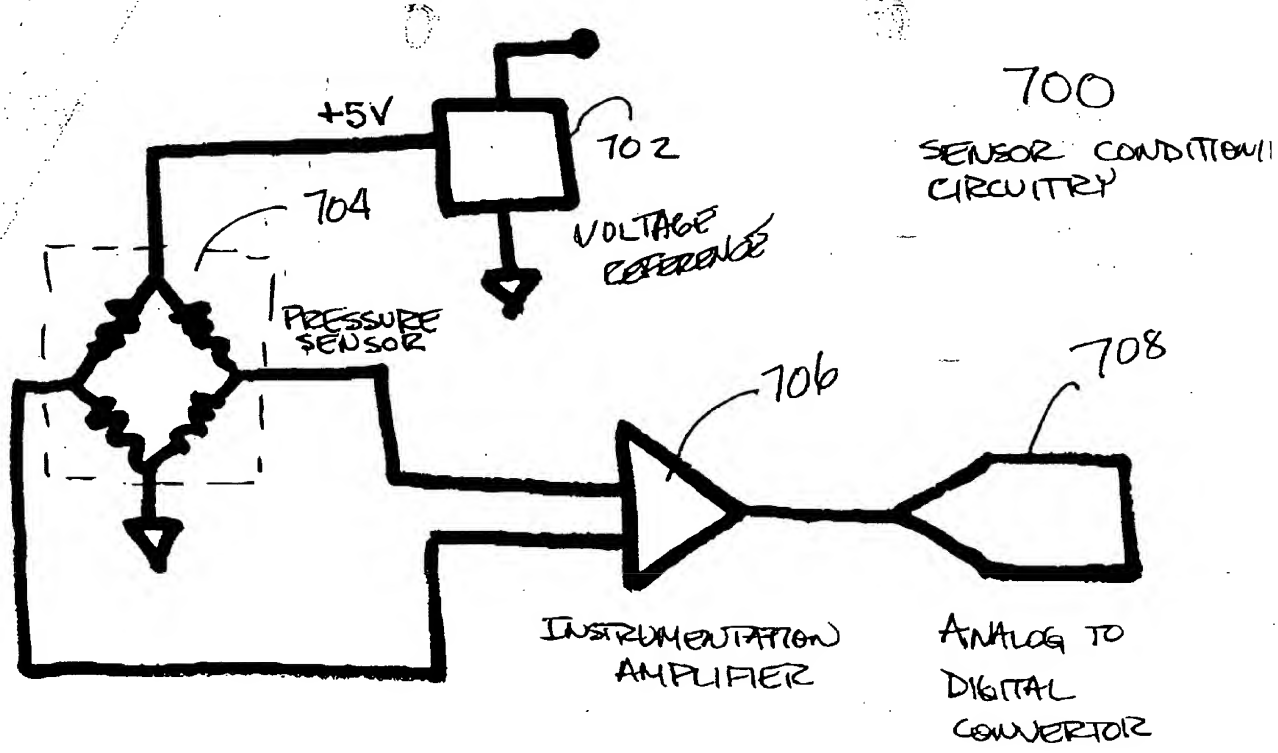
700
SENSOR CONDITIONING CIRCUITRY
+5V
702
704
VOLTAGE REFERENCE
PRESSURE SENSOR
706
708
INSTRUMENTATION AMPLIFIER
ANALOG TO DIGITAL CONVERTOR

Figure 7